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... under the attacker's control, the accumulated resources can ... RSA's Client Puzzles algorithm (see <http://www.rsasecurity> ... solve a small puzzle before establishing ...

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W Feng - Proceedings of the ACM SIGCOMM workshop on Future directions ..., 2003 - [portal.acm.org](#)

... number of credits accumulated by individual ... Cryptographic Defense Against Connection Depletion," in NDSS ... Authentication with Client Puzzles," Lecture Notes ...

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[A public-key based authentication and key establishment protocol coupled with a client puzzle - all 5 versions »](#)

MC Lee, CK Fung - Journal of the American Society for Information Science and ..., 2003 - [doi.wiley.com](#)

... incomplete connections would be accumulated by the ... PKI could effectively prevent connection depletion or other ... achieved in using a client puzzle mechanism in ...

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[A general attack model on hash-based client puzzles - all 2 versions »](#)

G Price - Proceedings of the 9th International Conference on ..., 2003 - Springer

... unsolicited e-mails, for which the accumulated cost would ... moderately-hard functions required for their puzzle schemes ... first to introduce the term client puzzle—zle ...

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[Secure traceroute to detect faulty or malicious routing - all 12 versions »](#)

VN Padmanabhan, DR Simon - ACM SIGCOMM Computer Communication Review, 2003 - [portal.acm.org](#)

... Alter- natively, some accumulated value based on multiple received ... a key exchange message with a "client puzzle-zle ... would have to solve the puzzle—which would ...

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[\[book\] Implementing Security for Atm Networks](#)

TD Tarmann, EL Witzke - 2002 - [books.google.com](#)

... Michael A. Caloyannides Demystifying the IPsec Puzzle, Sheila Frankel ... of any trademark or service mark ... Features 61 3.1 Implementing ATM Connection Policies 62 ...

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S Kumar, EH Spaord - National Information Systems Security'95 (18th) Proceedings: ..., 1996 - [books.google.com](#)

...

... The structure is client-server based in which the server obtains events and dispatches them to clients (patterns) which implement the matching procedure ...

[Cited by 130](#) - [Related Articles](#) - [Web Search](#)

[PDF] Political Artifacts and Personal Privacy: The Yenta Multi-Agent Distributed Matchmaking System - all 5 versions »

LN Foner - 1999 - [foner.www.media.mit.edu](#)

... 96 5.7.1 Denial of service ... privacy sur- rounding doctor/patient and attorney/client information which ... latter need not require a real-time connection for the ...

[Cited by 38](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

[BOOK] A Free and Ordered Space: The Real World of the University

AB Giamatti - 1988 - [books.google.com](#)

... The net effect since the Second World War is that institu- tions of higher education have lost vital connections to their surrounding institutions. ...

[Cited by 48](#) - [Web Search](#)

[PDF] GEORGE CYBENKO

A GIANI, P THOMPSON - ADVANCES IN COMPUTERS, 2003 - [lists.dartmouth.edu](#)

... This is in contrast to denial of service (DOS) and other kinds of well-known attacks that operate solely within the computer and network infrastructure. ...

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WJ Buchholz - Professional Communication, IEEE Transactions on, 1989 - [ieeexplore.ieee.org](#)

... reflect on the immense wealth accumulated by certain ... through the ex- cellence of her Harvard connection. ... is hoping that the prospective client thinks Harvard ...

[Cited by 5](#) - [Related Articles](#) - [Web Search](#)

[PDF] Towards the rapid network-wide deployment of new application specific network protocols, using ... - all 4 versions »

A Ghosh - 2002 - [icir.org](#)

... 164 C.1.2 HTTP - single connection How many people have actually written an ftp client or daemon? Consider the most widely used protocol on ...

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WD Grover - Proceedings of the IEEE, 1997 - [ieeexplore.ieee.org](#)

... cross-connect system (DCS) in a client-server-type ... is the act of making a bidirectional connection through a ... is fully operational but is not in service and is ...

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[BOOK] Lessons Learned in Software Testing: A Context-Driven Approach

C Kaner, J Bach, B Pettichord - 2002 - [Wiley](#)

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[BOOK] Integrated Buildings: The Systems Basis of Architecture - all 2 versions »

LF Bachman - 2003 - [books.google.com](#)

... structure. Connections between components and among sys- tems in general constitute another aspect of physical inte- gration. This ...

[Cited by 6](#) - [Related Articles](#) - [Web Search](#)

A SYSTEM AND METHOD FOR ESTABLISHING A PRIVACY COMMUNICATION PATH - all 4 versions »

SJ ENGBERG - EP Patent 1,290,599, 2003 - [freepatentsonline.com](#)

... an embodiment implementation, Fig 2:"200 Central Entities"shows a logical connection

diagram between ... When CLIENT buying power are accumulated in (perhaps ...

[Cached](#) - [Web Search](#)

[BOOK] **Method in Architecture**

T Heath - 1984 - John Wiley & Sons

[Cited by 43](#) - [Related Articles](#) - [Web Search](#)

[CITATION] **.7: Video Signal Distribution**

S Pulses - Standard Handbook of Video and Television Engineering, 2003 - McGraw-Hill Professional

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[BOOK] **The Built, the Unbuilt, and the Unbuildable: In Pursuit of Architectural Meaning**

R Harbison - 1991 - books.google.com

... **First of all, until recently no client would have ventured ... mocked up worlds, created in the service of architecture ... maze, they are not especially puzzle-like. ...**

[Cited by 28](#) - [Related Articles](#) - [Web Search](#)

[BOOK] **Body, Memory, and Architecture**

KC Bloomer, CW Moore - 1977 - books.google.com

... in manipulating precise Cartesian coordinates, but they exhibit no connection with the body ... with all the expected anal implications, is to service, trash removal ...

[Cited by 68](#) - [Related Articles](#) - [Web Search](#)

Key authors: [X Geng](#) - [S Kumar](#) - [V Padmanabhan](#) - [A Whinston](#) - [L Foner](#)

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[DOS-resistant authentication with client puzzles](#) - all 20 versions »

T Aura, P Nikander, J Leiwo - Lecture Notes in Computer Science, 2001 - Springer

... Client puzzles: A cryptographic countermeasure against connection depletion attacks ... framework and evaluation method for network denial of service ...

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[Using client puzzles to protect TLS](#) - all 17 versions »

D Dean, A Stubblefield - Proceedings of the 10th conference on USENIX Security ..., 2001 - portal.acm.org

... Client puzzles are an effective means of countering a denial-of-service ... Client puzzles: A cryptographic defense against connection depletion attacks ...

Cited by 130 - [Related Articles](#) - [Web Search](#)

[Denial of Service in Sensor Networks](#) - all 14 versions »

AD Wood, JA Stankovic - 2002 - doi.ieeecs.org

... the puzzles easily, and storage of client-specific information ... the server could scale the puzzles to require ... An existing connection between two end points can ...

Cited by 443 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[\[PDF\] Hashcash-A Denial of Service Counter-Measure](#) - all 19 versions »

A Back, ... - URL: <http://www.hashcash.org/papers/hashcash.pdf>, August, 2002 - cypherspace.org

... in the face of connection-depletion attacks. ... protocols with computationally expensive connection establishment phases ... but the analogous client-puzzle system was ...

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[\[PS\] Defending against denial-of-service attacks with puzzle auctions](#) - all 6 versions »

X Wang, MK Reiter - IEEE Symposium on Security and Privacy, 2003 - informatics.indiana.edu

... connection depletion attacks appears in [18]. Client puzzles have also been proposed to similarly protect authentication protocols against denial-of-service [2 ...

Cited by 80 - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#)

[Defeating Distributed Denial of Service Attacks](#) - all 15 versions »

X Geng, AB Whinston - 2000 - doi.ieeecomputersociety.org

... RSA's Client Puzzles algorithm (see <http://www.rsasecurity.com/rsalabs/staff> ... computer to correctly solve a small puzzle before establishing a connection. ...

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JR Douceur - Proceedings for the 1st International Workshop on Peer-to- ... - Springer

... popular recently for resisting denial-of-service ... Juels, J. Brainard, —Client Puzzles: A Cryptographic Defense against Connection Depletion Attacks", NDSS ...

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[TOWARDS NETWORK DENIAL OF SERVICE RESISTANT PROTOCOLS](#) - all 9 versions »

J Leiwo, T Aura, P Nikander - Information Security for Global Information Infrastructures: ..., 2000 - books.google.com

... a prov- ably secure key agreement protocol to a denial-of-service ... Client puzzles:
A cryptographic counter- measure against connection depletion attacks ...
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B Waters, A Juels, JA Halderman, EW Felten - *Proceedings of the 11th ACM conference on Computer and ...*, 2004 - [portal.acm.org](#)
... new way to use puzzles to mitigate denial-of-service ... limit the number of open TCP connections per channel ... of the solution to the client puzzle associated with ...
[Cited by 41](#) - [Related Articles](#) - [Web Search](#)

A formal framework and evaluation method for network denial of service - all 26 versions »
C Meadows - *Proceedings of the 1999 IEEE Computer Security Foundations ...*, 1999 - [doi.ieeecs.org](#)
... instead of in storing the SYN messages in the connection queue. ... in its initial stages without leaving itself vulnerable to denial of service attacks that ...
[Cited by 121](#) - [Related Articles](#) - [Web Search](#)

Botz-4-sale: Surviving organized DDoS attacks that mimic flash crowds - all 16 versions »
S Kandula, D Katabi, M Jacob, A Berger - *2nd Symposium on Networked Systems Design and Implementation ...*, 2005 - [usenix.org](#)
... because even legitimate users may drop puzzles due to ... Similarly, we allow a client that answers a CAPTCHA ... first data packet of the TCP connection will contain ...
[Cited by 82](#) - [Related Articles](#) - [Cached](#) - [Web Search](#)

Analyzing interaction between distributed denial of service attacks and mitigation technologies - all 4 versions »
WJ Blackert, DM Gregg, AK Castner, EM Kyle, RL Horn ... - *DARPA Information Survivability Conference and Exposition, ...*, 2003 - [ieeexplore.ieee.org](#)
... Distributed Denial of Service (DDOS) attacks disrupt and ... to determine if TCP connection initiation is ... 2). Proof of Work (or client puzzle) technologies require ...
[Cited by 17](#) - [Related Articles](#) - [Web Search](#)

Mitigating distributed denial of service attacks with dynamic resource pricing - all 8 versions »
D Mankins, R Krishnan, C Boyd, J Zao, M Frentz, ... - *Computer Security Applications Conference, 2001. ACSAC 2001. ...*, 2001 - [ieeexplore.ieee.org](#)
... Denial-of-service attacks create shortages of a ... resources are expended on the client's task ... SYN floods and buffer overflows, connection depletion attacks using ...
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Game-Based Analysis of Denial-of-Service Prevention Protocols - all 6 versions »
A Mahimkar, V Shmatikov - *IEEE Computer Security Foundations Workshop, 2005* - [doi.ieeecomputersociety.org](#)
... Instead of randomly generating a new puzzle value , the ... it as keyed hash (eg, HMAC) of the connection parameters, nonces ... (pseudo)-random to the client, yet the ...
[Cited by 21](#) - [Related Articles](#) - [Web Search](#)

Taming IP Packet Flooding Attacks - all 22 versions »
KLD Adkins, A Perrig, I Stoica - [portal.acm.org](#)
... One way to achieve this goal is to make it harder for a client to open a new connection by using cryptographic puzzles [17] or captchas [23]. ...
[Cited by 24](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Roaming Honeypots for Mitigating Service-level Denial-of-Service Attacks - all 13 versions »
SM Khattab, C Sangpachatanaruk, D Mosse, R Melhem, ... - *Proceedings of the 24th international Conference on ...*, 2004 - [doi.ieeeecomputersociety.org](#)
... Network Denial-of-Service (DoS) attacks [26] pose an increasing threat to both ... to

be idle in the middle of an active connection, the client module will ...

[Cited by 17](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[Sustaining Availability of Web Services under Distributed Denial of Service Attacks](#) - all 12 versions »

J Xu, W Lee · 2003 · doi.ieeecs.org

... SYN cookie, the firewall will establish a connection between a web ... sends a packet back to a client, the source ... Denial of service incidents began to be reported ...

[Cited by 40](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[A taxonomy of DDoS attack and DDoS defense mechanisms](#) - all 49 versions »

J Mirkovic · ACM SIGCOMM Computer Communication Review, 2004 · portal.acm.org

... A distributed denial-of-service attack deploys multiple attack ... EW: Exploited Weakness to Deny Service DDoS attacks ... of substantial space in a connection queue im ...

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[The case for TCP/IP puzzles](#) - all 12 versions »

W Feng · Proceedings of the ACM SIGCOMM workshop on Future directions ..., 2003 · portal.acm.org

... Cryptographic Defense Against Connection Depletion," in NDSS ... Resistant Authentication with Client Puzzles," Lecture Notes ... Towards Network Denial of Service ...

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GC Kessler · SANS institute, 2000 · lycetech.com

... The actual denial of service attack phase occurs ... Their approach uses a client puzzle protocol designed to allow servers to accept connection requests from ...

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... Servers from Distributed Denial of Service ... and J. Brainard, "Client Puzzles:

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A general attack model on hash-based client puzzles - all 2 versions »

G Price - Proceedings of the 9th International Conference on ..., 2003 - Springer

... hard functions required for their puzzle schemes. ... first to introduce the term client puzzle-zle ... s work defends against connection depletion attacks, specifically ...

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A public-key based authentication and key establishment protocol coupled with a client puzzle - all 5 versions »

MC Lee, CK Fung - Journal of the American Society for Information Science and ..., 2003 - doi.wiley.com

... they claimed that PKI could effectively prevent connection depletion or other denial-of-service ... could be achieved in using a client puzzle mechanism in the ...

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Secure traceroute to detect faulty or malicious routing - all 12 versions »

VN Padmanabhan, DR Simon - ACM SIGCOMM Computer Communication Review, 2003 - portal.acm.org

... Because the most frequent cause of failed connections will be ... a key exchange message with a "client puzzle-zle ... to, would have to solve the puzzle—which would ...

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Portcullis: protecting connection setup from denial-of-capability attacks - all 9 versions »

B Parno, D Wendlandt, E Shi, A Perrig, B Maggs, YC ... - 2007 - portal.acm.org

... LAN connection), potentially placing legitimate users at a ... and share puzzles, a legitimate client can quickly ... the pit-falls of previous puzzle schemes: it ...

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TJ McNevin - 2005 - scholar.lib.vt.edu

... 2.1.1. Denial-of-Service Attacks ... known as client puzzles. 2.1. ... attacks on systems.

Occasionally, these attacks are referred to as connection-depletion ...

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Examining the DoS Resistance of HIP - all 2 versions »

S Trifunovic, C Boyd, E Foo, JMG Nieto - LECTURE NOTES IN COMPUTER SCIENCE, 2006 - Springer

... 3. T. Aura and P. Nikander. Stateless Connections. ... Client Puzzles: A Cryptographic Defense Against Connection Depletion Attacks. ...

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S Chen, R Chow - Distributed Computing Systems, 2004. FTDCS 2004. Proceedings ..., 2004 - [ieeexplore.ieee.org](#)

... a preconfigured policy, eg, the rate of connections exceed 10,000 ... tunnel towards

A s . A virtual client puzzle is simulated ... e c s and the client traffic from ...

[Cited by 10](#) - [Related Articles](#) - [Web Search](#)

[Apparatus and method for mitigating DoS attacks in a service discovery system - all 2 versions »](#)

EP Patent 1,631,037, 2007 - [freepatentsonline.com](#)

... Alternatively, a connection to such a client can be ... at a higher priority by omitting sending a puzzle. ... a service request received from the client terminal 100 ...

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[A novel approach to detecting DDoS Attacks at an Early Stage - all 5 versions »](#)

B Xiao, W Chen, Y He - The Journal of Supercomputing, 2006 - Springer

... Puzzle based methods [11, 12] impose heavily overhead to ... request had been forwarded by the client detector at ... The pending half-open connection on the server S ...

[Related Articles](#) - [Web Search](#) - [BL Direct](#)

[PDF] [Securing routing in open networks using secure traceroute - all 7 versions »](#)

G Mathur, VN Padmanabhan, DR Simon - [research.microsoft.com](#)

... packet has been received. Alternatively, some accumulated value based on multiple received packets may be returned. For example, if ...

[Cited by 6](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

[PDF] [A Survey of Active and Passive Defence Mechanisms against DDoS Attacks](#)

Y Xiang, W Zhou, M Chowdhury - Australia: Deakin University, 2004 - [deakin.edu.au](#)

... When a connection is established between two UDP services, each ... that case it also falls in a denial of service. ... client is much higher than from client to server ...

[Cited by 22](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

[PDF] [A Sophisticated Privacy-Enhanced Yet Accountable Security Framework for Metropolitan Wireless Mesh ...](#)

K Ren, W Lou - [computer.org](#)

... of individual mesh routers will not affect network connection. ... network users, and iii) launch denial-of-service ... The WMN should maintain service availability ...

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[PDF] [FANFARE for the Common Flow - all 4 versions »](#)

E Shi, B Parno, A Perrig, YC Hu, B Maggs - [reports-archive.adm.cs.cmu.edu](#)

... may employ zombies in Distributed Denial-of-Service ... agreed to provide the corresponding level of service. ... refuses to return the accumulated capability, then ...

[Cited by 1](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

[Enhancing ZRTP by using Computational Puzzles](#)

H Hlavacs, W Gansterer, H Schabauer, J Zotti, M ... - Journal of Universal Computer Science, 2008 - [juics.org](#)

... generic token and immediately open a connection to Bob ... Solving the puzzle requires the client to find a ... problem (1) an interesting computational puzzle for our ...

[Web Search](#)

Attrition Defenses for a Peer-to-Peer Digital Preservation System - all 25 versions »
TJ Giuli, P Maniatis, M Baker, DSH Rosenthal, M ... - Arxiv preprint cs.CR/0405111, 2004 - usenix.org
... session, either keeping the same TCP connection from message to ... CPU-bound schemes
such as "client puzzles" [12] for ... the nature and types of denial of service ...
Cited by 4 - Related Articles - Web Search

An end-middle-end approach to connection establishment - all 10 versions »
S Guha, P Francis - 2007 - portal.acm.org
... If the connection breaks, for instance because of mobility or firewall crashing ... by
extending their host names with user, application, and service names, and by ...
Cited by 3 - Related Articles - Web Search - BL Direct

[PDF] Resisting Attrition Attacks on a Peer-to-Peer System
T Giuli, P Maniatis, M Baker, DSH Rosenthal, M ... - Usenix Annual Technical Conference - intel-research.net
... Denial of Service (DoS) attacks are among the most ... either maintaining the underlying
TCP connection from message ... CPU-bound schemes such as "client puzzles" ...
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H Rowaihy, W Enck, P McDaniel, T La Porta - Network and Security Research Center, Department of Computer
..., 2005 - nsr.cse.psu.edu
... admission control system vets joining nodes via client puzzles. ... These puzzle challenges
protect neighbors from a ... network to reestablish their connection to the ...
Cited by 6 - Related Articles - View as HTML - Web Search

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[PDF] [Distributed Denial-of-Service Characterization - all 3 versions »](#)

TJ DRAELOS, MD TORGERSON, MJ BERG, PL CAMPBELL, DP ... - 2003 - cs.nmt.edu

... establish a series of half-open connections constitutes abnormal ... adversary to achieve their goal, namely denial of some ... as a web browser or mail server/client. ...

[Cited by 4](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

[PS] [Authorization and availability: Aspects of open network security - all 7 versions »](#)

T Aura · RECON, 2000 · tcs.hut.fi

... [P9] is a result of collective work with ... clients to solve small cryptographic puzzles before it ... Similar, slightly more complex, client puzzles have previously ...

[Cited by 7](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

DENIAL OF SERVICE ATTACKS

D Levine, G Kessler · Computer and Security Handbook, 2002 · books.google.com

... DENIAL OF SERVICE ATTACKS 11-1 1 Exhibit 11.3 ... for the about-to-be- established connection and waits ... 3. The client sends a segment acknowledging the server's ISN ...

[Cited by 2](#) - [Related Articles](#) - [Web Search](#)

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J Dyer, R Perez, R Saller, L van Doorn · 2nd Australian Information Warfare & Security Conference (... , 2001 - paramedium.org

... use the secure processor and software puzzles to achieve ... of the processing resources of the collective system of ... usually be necessary to reboot the client to re ...

[Cited by 4](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

[Samsara: honor among thieves in peer-to-peer storage - all 34 versions »](#)

LP Cox, BD Noble · ACM SIGOPS Operating Systems Review, 2003 · portal.acm.org

... Nodes can enter and leave the collective without administrative action; such systems are entirely ... This is especially true for a backup service like Pastiche. ...

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... Furthermore, some protection against denial of service attacks can be ... TLS) protocols are widely used to secure the connection between a client and a ...

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A ROSENBERG · The American Mathematical Monthly, 1974 · The Association

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M Lerner - 2000 - books.google.com

... Architecture of the Internet 113 Figure 4-2: "Classical" Client-Server Architecture ...

User and Gateway 199 Figure 6-10: IPSec Connection to Service with Cloud ...

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C McTaggart - McGill LJ, 2003 - HeinOnline

... browser software and an Internet connection can be ... over the Internet, which Canadian

copyright collective-the Society ... race is a type of client-side application ...

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... cross-connect system (DCS) in a client-server-type ... the global optimality of the

collective routing state ... the act of making a bidirectional connection through a ...

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RA Grimes - 2001 - books.google.com

... There is a lot of collective personal effort directed toward ... occur when it is operating

a client process, like ... Host-based denial of service attacks One of the ...

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WJ Buchholtz - Professional Communication, IEEE Transactions on, 1989 - ieeexplore.ieee.org

... but only about 345 client certificates.), available ... the most in- teresting puzzles

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Emperor's New Clothes: The Shocking Truth about Digital Signatures and Internet Commerce. The

JK Winn - Idaho L. Rev., 2000 - HeinOnline

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S Haag, M Cummings - 2002 - McGraw-Hill College

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JT Richelson - International Journal of Intelligence and ..., 2003 - infomaworld.com

... benefit of hindsight is like putting together a jigsaw puzzle for the umpteenth time." She also alleges that the lack of attention to denial and deception ...

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Avoiding New Issues

JT RICHESON - INTERNATIONAL JOURNAL OF INTELLIGENCE AND ..., 2003 - ingentaconnect.com

... benefit of hindsight is like putting together a jigsaw puzzle for the umpteenth time." She also alleges that the lack of attention to denial and deception ...

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[book] **A Free and Ordered Space: The Real World of the University**

AB Giamatti - 1986 - books.google.com

... The net effect since the Second World War is that institutions of higher education have lost vital connections to their surrounding institutions. ...

Cited by 45 - [Web Search](#)

[book] **The Holy Grail of Network Storage Management** - all 2 versions »

JW Toigo - 2003 - books.google.com

... Our collective authors' egos aside, the success of all of ... this book will help you to puzzle out the ... engineers for the Accelerated Total Depletion of Information ...

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Denial of Service in Sensor Networks - all 14 versions »

AD Wood, JA Stankovic - 2002 - doi.ieeeecs.org

... Advances in miniaturization combined with an insatiable appetite ... easily, and storage of client-specific information ... server could scale the puzzles to require ...

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TOWARDS NETWORK DENIAL OF SERVICE RESISTANT PROTOCOLS - all 9 versions »

J Lewu, T Aura, P Nikander - Information Security for Global Information Infrastructures: ..., 2000 - books.google.com

... of the client, eg by IP spoofing, when combined with other ... Client puzzles: A cryptographic counter- measure against connection depletion attacks. ...

Cited by 49 - Related Articles - Web Search

Analyzing interaction between distributed denial of service attacks and mitigation technologies - all 4 versions »

WJ Blackert, DM Gregg, AK Castner, EM Kyle, RL Horn ... - DARPA Information Survivability Conference and Exposition, ..., 2003 - ieeeexplore.ieee.org

... No Mitigation Combined Mitigation & Tuning ... server to determine if TCP connection initiation is ... Figure 2). Proof of Work (or client puzzle) technologies require ...

Cited by 17 - Related Articles - Web Search

Mitigating distributed denial of service attacks with dynamic resource pricing - all 8 versions »

D Mankins, R Krishnan, C Boyd, J Zao, M Frenitz, ... - Computer Security Applications Conference, 2001. ACSAC 2001. ..., 2001 - ieeeexplore.ieee.org

... c) Subscriptions in Connections: a client pays for a connection that lasts for an ... This subscription type may be combined with a time- based subscription to ...

Cited by 33 - Related Articles - Web Search

NetBouncer: client-legitimacy-based high-performance DDoS filtering - all 11 versions »

R Thomas, B Mark, T Johnson, J Croall - DARPA Information Survivability Conference and Exposition, ..., 2003 - ieeeexplore.ieee.org

... down or throttling senders through client puzzles [10] and ... to messages returned by a client after it ... this scheme of egress packet tagging combined with ingress ...

Cited by 39 - Related Articles - Web Search

[PDF] Denial of Service Attacks and How to Defend Against Them - all 5 versions »

V Razmov - Survey Project Paper, Dept. of Computer Science and ..., 2000 - cs.washington.edu

... and strategies could be combined to offer ... and John Brainard, "Client puzzles: A cryptographic countermeasure against connection depletion attacks", In ...

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A public-key based authentication and key establishment protocol coupled with a client puzzle - all 5 versions »

MC Lee, CK Fung - Journal of the American Society for Information Science and ..., 2003 - doi.wiley.com

... prevent connection depletion or other denial-of- service attacks; and, in their

opinions, no additional benefits could be achieved in using a client puzzle ...

[Cited by 5](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

A denial-of-service resistant public-key authentication and keyestablishment protocol - all 4 versions »

OK Fung, MC Lee - Performance, Computing, and Communications Conference, 2002. ..., 2002 - [ieeexplore.ieee.org](#)

... been identified as vulnerable to denial-of-service ... generalizes the concept of stateless connection to prevent ... introduced the concept of client puzzle to combat ...

[Cited by 4](#) - [Related Articles](#) - [Web Search](#)

[PS] Authorization and availability: Aspects of open network security - all 7 versions »

T Aura - RECON, 2000 - [tos.hut.fi](#)

... Similar, slightly more complex, client puzzles have previously been ... one that has certified the client directly ... Inde- pendent paths can be combined for increased ...

[Cited by 7](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

Mandatory human participation: a new authentication scheme for building secure systems - all 6 versions »

J Xu, R Lipton, I Essa, M Sung, Y Zhu - Computer Communications and Networks, 2003. ICCCN 2003. ..., 2003 - [ieeexplore.ieee.org](#)

... their individual constituents combined because some ... and J. Brainard, "Client puzzles: A cryptographic ... measure against connection depletion attacks," in Proc ...

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Cryptographic Salt: A Countermeasure against Denial-of-Service Attacks - all 4 versions »

DG Park, JJ Kim, C Boyd, E Dawson - Proceedings of the 6th Australasian Conference on ..., 2001 - Springer
... something in common with the client puzzle concept in ... verification and another for the client signature verification. ... ideas, however, may be combined as shown ...

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[PDF] Advanced client/server authentication in TLS - all 7 versions »

A Hess, J Jacobson, H Mills, R Wamsley, KE Seamons ... - Network and Distributed System Security Symposium, 2002 - [isrl.cs.byu.edu](#)

... according to the specific data or service being accessed ... it is not possible to authenticate the client during the ... at the beginning of a connection, because the ...

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[PDF] Denial of Service in Sensor Networks - all 30 versions »

D Anthony, A John - IEEE Computer, 2002 - [cs.virginia.edu](#)

... AND APPLICATION Advances in miniaturization combined with an ... the puzzles easily, and storage of client-specific information ... solve and present the puzzle to the ...

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[CITATION] Defending Against an Internet-based Attack on the Physical World

AD Rubin - Proceedings of the ACM Workshop on Privacy in the Electronic ..., 2003 - Association for Computing Machinery

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[CITATION] New Client Puzzle Outsourcing Techniques for DoS Resistance

NJ Princeton, MA Bedford - ACM Conference on Computer and Communications Security: ..., 1999 - Association for Computing Machinery

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A Client Puzzle Based Public key Authentication Protocol - all 2 versions »

CK Fung, MY Wong - Smart Networks, 2002 - books.google.com

... This signature can be combined with the ... Juels and John Brainard,"Client puzzles:

A cryptographic countermeasure against connection depletion attacks," in ...

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Denial of Service in Sensor Networks

JA Stankovic, AD Wood - 2002 - Storming Media

... AND APPLICATION Advances in miniaturization combined with an ... the puzzles easily,
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[CITATION] The Dual Receiver Cryptosystem and Its Applications

TDHKL Angelos, DKM Yung - ACM Conference on Computer and Communications Security: ..., 1999 -

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Efficient, DoS-resistant, secure key exchange for internet protocols - all 32 versions »

W Aiello, SM Bellovin, M Blaze, J Ioannidis, O ... - Proceedings of the 9th ACM conference on Computer and ...
2002 - portal.acm.org

... since the initiator is typically a relatively anonymous "client," while the ... more
important in the context of recent Internet denial-of-service attacks. ...

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High-speed router filter for blocking TCP flooding under DDoS attack - all 4 versions »

Y Kim, JY Jo, HJ Chao, F Merat - Performance, Computing, and Communications Conference, 2003. ..., 2003 -
ieeexplore.ieee.org

... receives a flow ID from the connection verifier module ... Upon receiving a packet from
the client side, the ... For the same combined hash table size, the probability ...

Cited by 5 - Related Articles - Web Search

Key authors: A Wood - J Stankovic - R Dingleline - L Zhou - M Freedman

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combined client puzzle (connection)

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DOS-resistant authentication with client puzzles - all 20 versions »

T Aura, P Nikander, J Leiwo - Lecture Notes in Computer Science, 2001 - Springer

... The client may reuse a recent puzzle by generating a new ... Client puzzles: A cryptographic countermeasure against connection depletion attacks. ...

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[PS] Defending against denial-of-service attacks with puzzle auctions - all 6 versions »

X Wang, MK Reiter - IEEE Symposium on Security and Privacy, 2003 - informatics.indiana.edu

... connection depletion attacks appears in [18]. Client puzzles have also been proposed to similarly protect authentication protocols against denial-of-service [2 ...

[Cited by 50](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#)

Guaranteeing Access in Spite of Distributed Service-Flooding Attacks - all 11 versions »

VD Gligor - Proceedings of the Security Protocols Workshop, 2003 - Springer

... require that clients solve a cryptographic puzzle before server ... has been used to counter connection-depletion attacks [15 ... delay incurred by a client request to ...

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[PDF] Advanced client/server authentication in TLS - all 7 versions »

A Hess, J Jacobson, H Mills, R Warnsley, KE Seamons ... - Network and Distributed System Security Symposium, 2002 - isrl.cs.byu.edu

... client during the initial TLS handshake at the beginning of a connection, because the ... In order to resume a session, the client and server reuse the master ...

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Efficient, DoS-resistant, secure key exchange for internet protocols - all 32 versions »

W Aiello, SM Bellare, M Blaze, J Ioannidis, O ... - Proceedings of the 9th ACM conference on Computer and ... 2002 - portal.acm.org

... Specifically, we allow a party to reuse the same ... is typically a relatively anonymous "client," while the ... the context of recent Internet denial-of-service ...

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[CITATION] The Dual Receiver Cryptosystem and Its Applications

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[A Proposal for DoS-Defensive Internet Key Exchange](#)

MS Choi, DJ Kwak, SJ Moon - LECTURE NOTES IN COMPUTER SCIENCE, 2003 - Springer
... 10] is similar to the puzzle method, except ... client from launching multiple attacks,
the client workload should ... Furthermore, the responder prevents reuse of SIG ...
[Related Articles](#) - [Web Search](#) - [BL Direct](#)

[PROOFS OF WORK AND BREAD PUDDING PROTOCOLS \(EXTENDED ABSTRACT\)](#) - all 8 versions »

M Jakobsson, A Juels - Secure Information Networks: Communications and Multimedia ..., 1999 - books.google.com
... In a conventional sense-in keeping with the spirit of reuse that motivates ... Client puzzles: A cryptographic defense against connection depletion attacks ...
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identify connections between different ... 5 Reflection 25 1.6.6 Denial of Service ...
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[\[PDF\] Internet Telephony: Architecture and Protocols an IETF Perspective](#) - all 50 versions »

H Schulzrinne, J Rosenberg - Computer Networks, 1999 - item.ntnu.no
... location, which form pieces of the over- all puzzle. ... As there is no network connection
state, none needs to ... Client applications can display the name and email ...
[Cited by 144](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

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LP Cox, CD Murray, BD Noble - ACM SIGOPS Operating Systems Review, 2002 - portal.acm.org
... How can nodes reuse their own on-disk state ... a significant period of time, the client
likewise removes ... force each node to solve cryptographic puzzles [24] in ...
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[The Evolution of Intrusion Detection Systems—The Next Step](#) - all 2 versions »

R Barber - Computers & Security, 2001 - Elsevier
... The target reacts unpredictably (eg drops network connections). ... It allows the attacking
client to remote control the ... is set for the IDS jigsaw puzzle to be re ...
[Cited by 8](#) - [Related Articles](#) - [Web Search](#)

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... Furthermore, some protection against denial of service attacks can be ... TLS) protocols
are widely used to secure the connection between a client and a ...
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[PDF] [Using Secure Coprocessors](#) - all 19 versions »

B. Yee - 1994 - www.cse.ucsd.edu

... display is available, care must be taken to verify that the connection to the ... an authentic secure coprocessor if access to any normal remote service can be ...

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... A. Caloyannides Demystifying the IPsec Puzzle, Sheila Frankel ... and Running the Example The Target Client-Side Code ... It is impossible to reuse software components ...

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